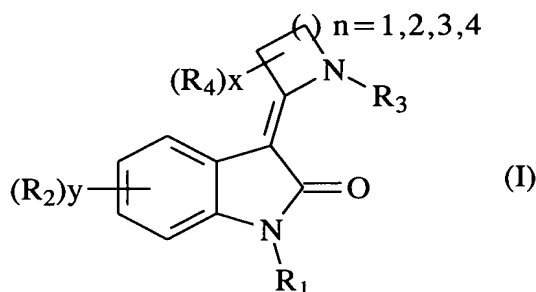


WHAT IS CLAIMED IS:

1. A topically applicable cosmetic/dermatological sunscreen composition suited for the UV-photoprotection of the skin and/or hair, comprising (a) an effective UV-screening amount of at least one 3-(2-azacycloalkylidene)-1,3-dihydroindol-2-one compound having the following structural formula (I):



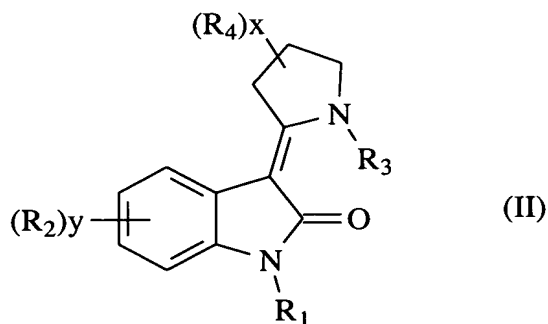
- in which R_1 and R_3 , which may be identical or different, are each a hydrogen atom, a saturated or unsaturated, linear or branched, C_1 - C_{22} alkyl radical optionally substituted with one or more groups A_1 , a saturated or unsaturated, 4- to 7-atom ring member optionally containing at least one heteroatom selected from among N, O and S, optionally fused with another ring, optionally substituted with one or more groups A_1 , with the proviso that these rings may contain one or more carbonyl or thiocarbonyl functional groups, one of the groups $C(=NR_5)R'_5$, $C(=NR_5)NR'_5R''_5$, COR_5 , CSR_5 , $COOR_5$, $CONR_5R'_5$, $CSNR_5R'_5$, SO_2R_5 , and $SO_2NR_5R'_5$ wherein R_5 , R'_5 and R''_5 , which may be identical or different, are each hydrogen, a linear or branched C_1 - C_{22} alkyl radical or a 4- to 7-atom ring member optionally containing at least one heteroatom selected from among N, O, S, optionally fused with another ring, with the proviso that these rings may contain one or more carbonyl or thiocarbonyl functional groups, the alkyl radical of said rings being saturated or unsaturated and optionally substituted with at least one substituent A_2 ; R_2 and R_4 , which may be identical or different, are each a

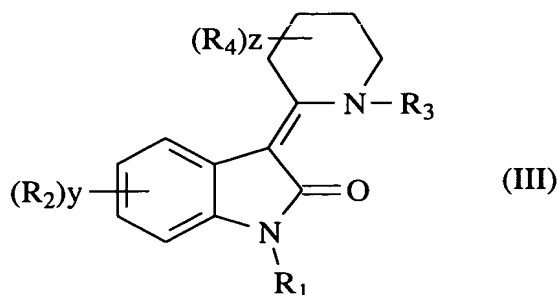
hydrogen atom, a saturated or unsaturated, linear or branched C₁-C₂₂ alkyl radical optionally substituted with one or more groups A₁, a saturated or unsaturated, 4- to 7-atom ring member optionally containing at least one heteroatom selected from among N, O and S, optionally substituted with one or more groups A₁, optionally fused with another ring or with another 3-(2-azacycloalkylidene)-1,3-dihydroindol-2-one compound, with the proviso that these rings may contain one or more carbonyl or thiocarbonyl functional groups, optionally positively charged, a halogen, one of the groups CF₃, CN, OR₅, SR₅, NR₅R'₅, C(=NR₅)R'₅, C(=NR₅)NR'₅R''₅, NR₅C(=NR'₅)NR''₅R'''₅, COR₅, CSR₅, COOR₅, CONR₅R'₅, NR₅COR'₅, NR₅CONR'₅R''₅, CSNR₅R'₅, SO₂NR₅R'₅, NR₅SO₂R'₅, SO₂R₅, and NR₅R'₅R''₅R'''₅⁺ wherein R₅, R'₅, R''₅ and R'''₅, which may be identical or different, are each hydrogen, a linear or branched C₁-C₂₂ alkyl radical or a 4- to 7-atom ring member which may contain at least one heteroatom selected from among N, O, S, optionally fused with another ring, with the proviso that these rings may contain one or more carbonyl or thiocarbonyl functional groups, the alkyl radical or the said rings being saturated or unsaturated and optionally substituted with at least one substituent A₂; A₁ is a halogen, a saturated or unsaturated, linear or branched C₁-C₂₂ alkyl radical, optionally substituted with one or more groups A₂, one of the groups CF₃, CN, OR₅, SR₅, NR₅R'₅, C(=NR₅)R'₅, C(=NR₅)NR'₅R''₅, NR₅C(=NR'₅)NR''₅R'''₅, COR₅, CSR₅, COOR₅, CONR₅R'₅, NR₅COR'₅, NR₅CONR'₅R''₅, CSNR₅R'₅, SO₂NR₅R'₅, NR₅SO₂R'₅, SO₂R₅, SiR₅R'₅R''₅, SiR₅(OSiR'₅R''₅R'''₅)OSiR'₅R''₅R'''₅, and NR₅R'₅R''₅R'''₅⁺ wherein R₅, R'₅, R''₅ and R'''₅, which may be identical or different, are each hydrogen, a linear or branched C₁-C₂₂ alkyl radical or a 4- to 7-atom ring member which may contain at least one heteroatom selected from among N, O, S, optionally fused with another ring, with the proviso that these rings may contain one or more carbonyl or thiocarbonyl functional groups, the alkyl radical or said rings being saturated or unsaturated and optionally substituted with at least one substituent A₂, a saturated or unsaturated 4- to 7-atom ring member optionally

containing at least one heteroatom selected from among N, O and S, optionally substituted with one or more groups A_2 , optionally fused with another ring or with another 3-(2-azacycloalkylidene)-1,3-dihydroindol-2-one compound, with the proviso that these rings may contain one or more carbonyl or thiocarbonyl

- 5 functional groups, optionally positively charged; A_2 is a halogen, a saturated or unsaturated, linear or branched C_1 - C_{22} alkyl radical, one of the groups CF_3 , CN, OR, SR, NRR' , $C(=NR)R'$, $C(=NR)NR'R''$, $NRC(=NR')NR''R'''$, COR, CSR, COOR, CONRR', $NRCOR'$, $NRCONR'R''$, $CSNRR'$, SO_2NRR' , $NRSO_2R'$, SO_2R , $SiRR'R''$, $SiR(OSiR'R''R''')OSiR'R''R'''$, and $NRR'R''R'''$ + wherein R, 10 R' , R'' and R''' , which may be identical or different, are each hydrogen or a linear or branched C_1 - C_{22} alkyl radical; y is 1, 2, 3 or 4; and x ranges from 1 to $2n+2$, formulated into (b) a topically applicable, cosmetically/dermatologically acceptable carrier therefor.

- 15 2. The cosmetic/dermatological composition as defined by Claim 1, said at least one 3-(2-azacycloalkylidene)-1,3-dihydroindol-2-one compound having one of the following formulae (II) or (III):





in which R_1 and R_3 , which may be identical or different, are each hydrogen, a saturated or unsaturated, linear or branched C_1 - C_8 alkyl radical, a phenyl radical, or a radical COR_5 or SO_2R_5 wherein R_5 is a saturated or unsaturated, linear or branched C_1 - C_8 alkyl radical, or a phenyl radical; R_2 is hydrogen, a saturated or unsaturated, linear or branched C_1 - C_8 alkyl radical, a phenyl radical, one of the radicals OR_5 , $NR_5R'_5$, $NR_5COR'_5$, $COOR_5$ and $CONR_5R'_5$ wherein R_5 and R'_5 , which may be identical or different, are each hydrogen, a saturated or unsaturated, linear or branched C_1 - C_8 alkyl radical, a phenyl radical, or the radical CF_3 ; R_4 is hydrogen, a saturated or unsaturated, linear or branched C_1 - C_8 alkyl radical, a phenyl radical or a radical OR_5 wherein R_5 is hydrogen, a saturated or unsaturated, linear or branched C_1 - C_8 alkyl radical, or a phenyl radical; and x , y and z are each 1, 2, 3 or 4.

3. The cosmetic/dermatological composition as defined by Claim 2, comprising at least one compound of formula (II), wherein: R_2 is hydrogen, OR_5 , $NR_5COR'_5$ or $NR_5R'_5$ wherein R_5 and R'_5 , which may be identical or different, are each hydrogen, a saturated or unsaturated, linear or branched C_1 - C_8 alkyl radical, or a phenyl radical; R_4 is hydrogen; and R_1 and R_3 , which may be identical or different, are each hydrogen, a saturated or unsaturated, linear or branched C_1 - C_8 alkyl radical, or a phenyl radical.

4. The cosmetic/dermatological composition as defined by Claim 3,
comprising at least one compound of formula (II) selected from the group
consisting of 1-ethyl-3-(1-methylpyrrolidin-2-ylidene)-1,3-dihydroindol-2-one
1-ethyl-3-pyrrolidin-2-ylidene-1,3-dihydroindol-2-one and pyrrolidine-2-ylidene-
5 1,3-dihydroindol-2-one.
5. The cosmetic/dermatological composition as defined by Claim 1, said at
least one 3-(2-azacycloalkylidene)-1,3-dihydroindol-2-one compound comprising
from 0.01 % to 20 % by weight thereof.
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6. The cosmetic/dermatological composition as defined by Claim 1, said at
least one 3-(2-azacycloalkylidene)-1,3-dihydroindol-2-one compound comprising
from 0.1 % to 10 % by weight thereof.
- 15 7. The cosmetic/dermatological composition as defined by Claim 1,
formulated as an oil-in-water or water-in-oil emulsion.
8. The cosmetic/dermatological composition as defined by Claim 1, further
comprising at least one additional organic and/or inorganic UV-A and/or UV-B
20 sunscreen.
9. The cosmetic/dermatological composition as defined by Claim 8,
comprising at least one additional organic sunscreen selected from the group
consisting of anthranilates; cinnamic derivatives; dibenzoylmethane derivatives;
25 salicylic derivatives, camphor derivatives; triazine derivatives; benzophenone
derivatives; β,β -diphenyl acrylate derivatives; benzotriazole derivatives;
benzalmalonate derivatives; benzimidazole derivatives; imidazolines; bis-
benzoazolyl derivatives; p-aminobenzoic acid (PABA) derivatives;
methylenebis(hydroxyphenylbenzotriazole) derivatives; benzoxazole derivatives ;

screening polymers and screening silicones; dimers derived from α -alkylstyrene; 4,4-diarylbutadiene derivatives, and mixtures thereof.

10. The cosmetic/dermatological composition as defined by Claim 9, said at
5 least one additional organic sunscreen being selected from the group consisting of:
Ethylhexyl Salicylate,
Ethylhexyl Methoxycinnamate, Octocrylene,
Phenylbenzimidazole Sulphonic Acid,
Benzophenone-3,
10 Benzophenone-4,
Benzophenone-5,
n-Hexyl 2-(4-diethylamino-2-hydroxybenzoyl)benzoate,
4-Methylbenzylidene camphor,
Terephthalylidene dicamphor sulfonic acid,
15 Disodium Phenyl Dibenzenimidazole Tetra-sulphonate,
2,4,6-Tris(diisobutyl 4'-aminobenzalmalonate)-s-triazine,
Anisotriazine,
Ethylhexyl triazone,
Diethylhexyl Butamido Triazone,
20 Methylene bis-Benzotriazolyl Tetramethylbutylphenol,
Drometrizole Trisiloxane,
Polysilicone-15
1,1-dicarboxy(2,2'-dimethylpropyl)-4,4-
diphenylbutadiene
25 2,4-bis-[5-1(dimethylpropyl)benzoxazol-2-yl-(4-phenyl)-imino]-6-(2-ethylhexyl)-
imino-1,3,5-triazine, and mixtures thereof.

11. The cosmetic/dermatological composition as defined by Claim 8, comprising at least one additional inorganic sunscreen pigment or nanopigment of a metal oxide, coated or uncoated.
- 5 12. The cosmetic/dermatological composition as defined by Claim 11, said at least one pigment or nanopigment comprising titanium, zinc, iron, zirconium and/or cerium oxides, and mixtures thereof, coated or uncoated.
- 10 13. The cosmetic/dermatological composition as defined by Claim 1, further comprising at least one agent for artificially bronzing and/or tanning the skin.
- 15 14. The cosmetic/dermatological composition as defined by Claim 1, further comprising at least one adjuvant or additive selected from the group consisting of fatty substances, organic solvents, ionic or nonionic thickeners, demulcents, humectants, antioxidants, moisturizers, desquamating agents, anti-free-radical agents, antipollution agents, antibacterials, anti-inflammatory agents, depigmenting agents, propigmenting agents, opacifiers, stabilizers, emollients, silicones, anti-foaming agents, insect repellents, perfumes, preservatives, anionic, cationic, nonionic, zwitterionic or amphoteric surfactants, substance P antagonists, 20 substance CGRP antagonists, fillers, pigments, polymers, propellants, alkalinizing or acidifying agents, and mixtures thereof.
- 25 15. The cosmetic/dermatological composition as defined by Claim 1, formulated as a nonionic vesicular dispersion, a cream, a milk, a gel, a gel cream, a suspension, a dispersion, an oil, a powder, a solid stick, a mousse or a spray.
16. The cosmetic/dermatological composition as defined by Claim 1, formulated as a makeup.

17. The cosmetic/dermatological composition as defined by Claim 1, formulated for protecting the hair against ultraviolet rays and in the form of a shampoo, a lotion, a gel, an emulsion or a nonionic vesicular dispersion.
- 5 18. A regime or regimen for photoprotecting the skin and/or hair against the damaging effects of UV radiation, comprising topically applying thereon an effective amount of the cosmetic/dermatological composition as defined by Claim 1.
- 10 19. A regime or regimen for controlling the variation in the color of the skin due to UV radiation, comprising topically applying thereon an effective amount of the cosmetic/dermatological composition as defined by Claim 1.
- 15 20. A synthetic polymer or glass containing an effective photostabilizing amount of at least one 3-(2-azacycloalkylidene)-1,3-dihydroindol-2-one compound as defined in Claim 1.